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## COLLEGE/UNIVERSITY FLU VACCINATION TOOLKIT

MDCH has a new [toolkit](#) available to help promote flu vaccination among college and university students! It includes strategies to increase rates, key messages, email and news release templates, social media messages, posters, flyers, and more. Help us increase flu vaccination rates in this unique young adult population! If you are a college/university health center, we'd especially like your input on your past and current efforts to increase flu vaccination among your student populations. Please take our survey: <https://www.surveymonkey.com/s/flucollege>.

## AVIAN INFLUENZA A (H7N9)

No additional human infections with avian influenza A(H7N9) were reported this week. The global number of H7N9 infections remains at 137, including 45 deaths.

- CDC: [H7N9 Update](#)
- [Age-specific and sex-specific morbidity and mortality from avian influenza A\(H7N9\)](#)
- [Adaptation of novel H7N9 influenza A virus to human receptors](#)
  - Found H7N9 not able to efficiently bind to epithelial cells of human trachea, consistent with its limited human-to-human transmission
- [Chinese scientists develop H7N9 bird flu vaccine](#)

## INFLUENZA-RELATED NEWS ARTICLES

- [WHO: H3N2 continues to dominate global flu activity](#)
- [Google Flu Trends updates model to help estimate flu levels in the US](#)
- [NanoBio awarded up to \\$10 million in NIH funding to develop a pandemic influenza vaccine](#)
- CDC: [Nearly 114 million doses of seasonal flu vaccine distributed as of October 25](#)

## 2013 MDCH FALL REGIONAL IMMUNIZATION CONFERENCES

Registration is still open for some of the Fall Regional Immunization Conferences! To register or for more information, visit the conference [website](#). The remaining open conferences are Nov. 19 (Bay City) and Nov. 22 (Troy).

## FLU WEBSITES

- [www.michigan.gov/flu](http://www.michigan.gov/flu)
- [www.cdc.gov/flu](http://www.cdc.gov/flu)
- [www.flu.gov](http://www.flu.gov)
- <http://vaccine.healthmap.org/>

## RESOURCE FOR ADULT VACCINATION PROVIDERS

Adult vaccination providers, please provide the [HealthMap Vaccine Finder](#) with data on your vaccination services. Last year this website helped direct more than 500,000 patients to vaccination providers in their areas. Take advantage of this free opportunity to list your clinics!

## H5N1 AVIAN INFLUENZA JOURNAL AND NEWS ARTICLES

- [Selection on hemagglutinin imposes a bottleneck during mammalian transmission of reassortant H5N1 influenza viruses](#)

## INFLUENZA-RELATED JOURNAL ARTICLES

- *Pediatrics*: [Influenza-associated pediatric deaths in the United States, 2004-2012](#)
  - CDC-authored study, analyzed all lab-confirmed flu-associated pediatric deaths reported from 2004-05 through 2011-12
  - 830 flu-associated pediatric deaths
  - Of 794 with known medical history, 43% had no high-risk medical conditions
  - Influenza A virus associated with 78% of deaths
- *The Journal of the American Medical Association*: [Association between influenza vaccination and cardiovascular outcomes in high-risk patients: A meta-analysis](#)
  - Researchers concluded patients who had a flu shot had a 2.9% risk of a major cardiovascular event in the ensuing year, vs. a 4.7% risk for those who were not vaccinated
  - Found the risk reduction was especially pronounced in those who had a cardiovascular event in the previous year (10% risk vs. 23%)
- *MMWR*: [Update: Influenza activity - U.S. and worldwide, May 19-September 28, 2013](#)
  - U.S. flu activity during summer 2013 was similar to previous years
  - Antigenic testing of circulating strains in U.S. over summer suggests they are similar to the strains included in 2013-14 vaccine

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